PLAN ID: APARTMENT HOUSE - Option 2 Low-Slope Apartment House

DESCRIPTION:

2 LEVEL 3 BED 3 BATH 2,338 SQ. FT.

APPLICABLE CODES:

RESIDENTIAL CODE: ACCESSIBILITY:

2015 INTERNATIONAL RESIDENTIAL CODE

2009 ANSI A117.1 & TEXAS ACCESSIBILITY STANDARDS FAIR HOUSING

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COVER SHEET

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A0.1 GENERAL INFORMATION

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CODE RESEARCH



ARTMENT HOUSE tion 2 Low-Slope Apartment House

JOB NO. 180012

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COVER



1/2" FLAME CURB® Super 'C'

Resilient channels 24" o.c. attached at right angles to ONE SIDE of 2 x 4 wood studs 16" or 24" o.c. with 1 1/4" Type S drywall screws. One layer 5/8" proprietary type X gypsum wallboard or gypsum veneer base applied parallel to channels with 1" Type S drywall screws 12" o.c. End joints backblocked with resilient channels. 3" mineral fiber insulation, 2.0 or 2.3 pcf, in stud space.

base applied at right angles to studs with 1 1/4" Type W drywall screws 12" o.c. Vertical joints staggered 48" on opposite sides. Sound tested with stude 16" o.c. and open face of mineral fiber insulation blankets toward resilient channel-side of stud space. (LOAD-BEARING)

OPPOSITE SIDE: one layer 5/8" proprietary type X gypsum wallboard or gypsum veneer

PROPRIETARY GYPSUM BOARD 5/8" FIREBLOC TYPE C American Gypsum Company CertainTeed Gypsum, Inc. 5/8" ProRoc™ Type C Gypsum Panels G-P Gypsum 5/8" ToughRock® Fireguard® C Lafarge North America Inc. 5/8" Firecheck® Type C National Gypsum Company 5/8" Gold Bond® Brand FIRE-SHIELD C™ Gypsum Wallboard

†Contact the manufacturer for more detailed information on proprietary products.

FLOOR-CEILING SYSTEMS, WOOD FRAMED

GA FILE NO. FC 5111 GENERIC WOOD I-JOISTS, GYPSUM WALLBOARD,

RESILIENT CHANNELS

Base layer 1/2" type X gypsum wallboard applied at right angles to resilient channels 16" o.c. with 11/4" Type S drywall screws 12" o.c. Resilient channels applied at right angles to minimum 91/2" deep wood I-joists, with minimum 11/4" deep x 11/2" wide flanges and minimum 3/8" webs, 24" o.c. with 11/4" Type W drywall screws. Face layer 1/2" type X gypsum wallboard applied at right angles to channels with 15/8" Type S drywall screws 12" o.c. Face layer end joints located midway between channels and attached to base layer with 11/2" Type G screws 12" o.c. Edge joints offset 24" from base layer edge joints. Wood I-joists supporting 5/8" oriented strand board applied at right angles to Ijoists with 8d common nails 12" o.c.

STC and IIC tested with 40 oz carpet over 1/4" foam pad.

PABCO Gypsum

Temple-Inland Forest Products Corporation

ADD 3" MINERAL FIBER SOUND ATTENUATING INSULATION OVER RESILIENT CHANNELS BETWEEN JOISTS.

3		
	Thickness: Approx. Weight: Fire Test:	5 3/8" 7 psf Based on UL R3660-7, 11-12-87; UL R2717-61, 8-18-87; UL R7094, 10-24-90;
	Sound Test:	UL Design U311 Estimated
		_
	1 HOUR FIRE	50 to 54 STC SOUND
S" :S	Ĭ	

50 to 54 STC

SOUND

6-24-97

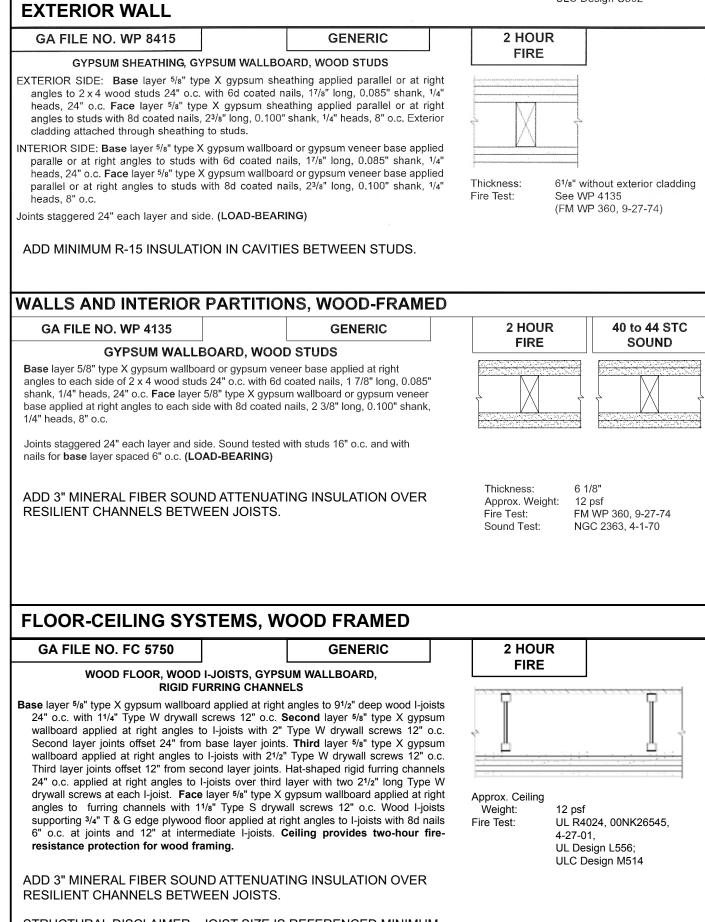
Sound Test: IIC & Test:

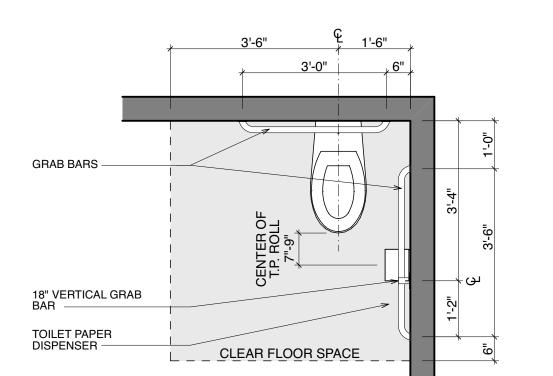
NRCC A-4440.1 (Revised),

NRCC B-3150.2, 6-30-00 WOOD FLOOR, WOOD I-JOISTS, GYPSUM WALLBOARD, NRCC B-3150.2, 6-30-00 RIGID FURRING CHANNELS

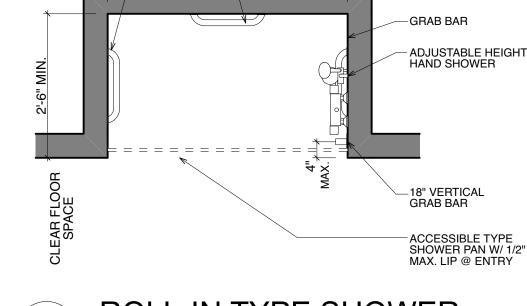
resistance protection for wood framing.

STRUCTURAL DISCLAIMER - JOIST SIZE IS REFERENCED MINIMUM FOR FIRE RATING. STRUCTURAL DETERMINATION BY OTHERS





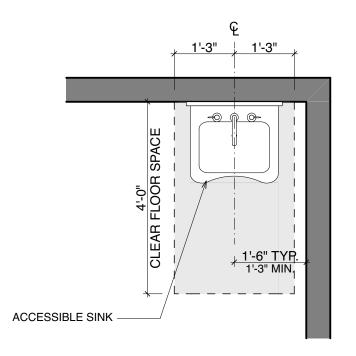




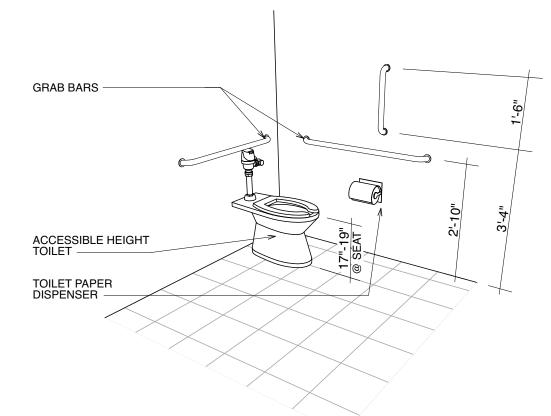
GRAB BAR —

ROLL-IN TYPE SHOWER

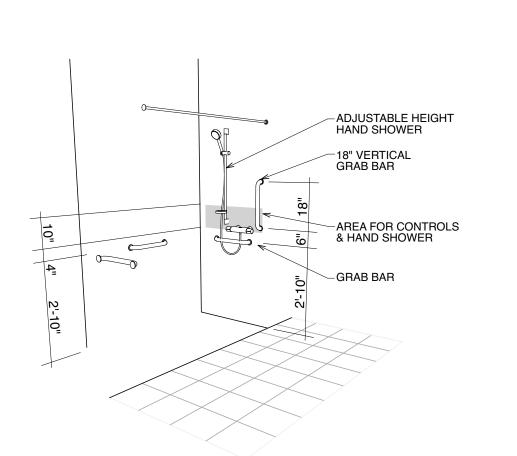
SCALE: 1/2" = 1'-0"





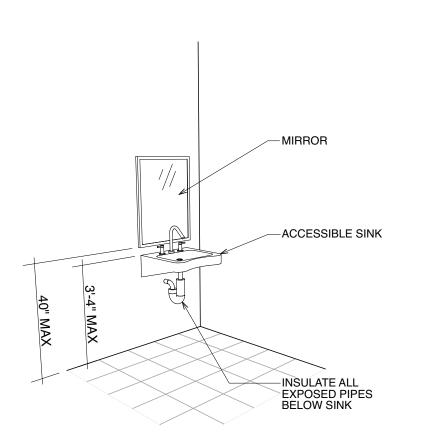


TYPICAL ACCESSIBLE TOILET

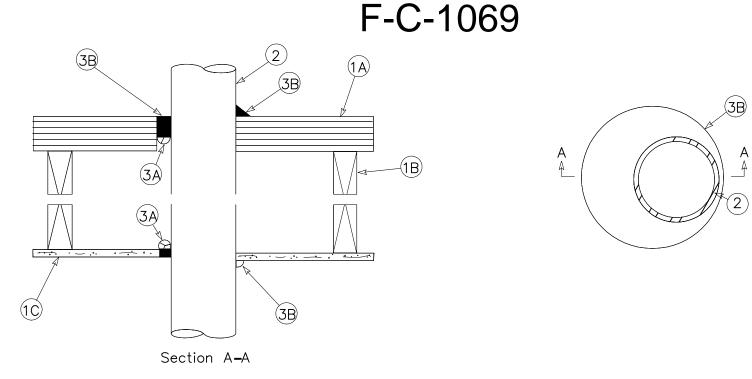


ROLL-IN TYPE SHOWER

SCALE: 1/16" = 1'-0"







1. Floor/ceiling assembly:

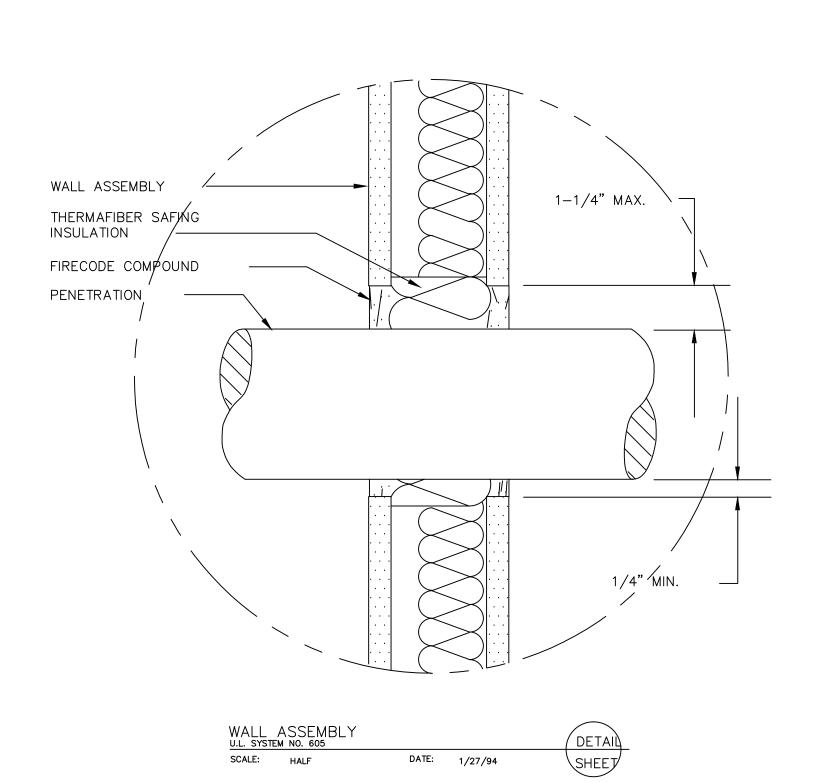
- A.. Flooring system: 5/8" thick plywood/2"x 4" continuous wood decking.
- B. Wood joist: Nom. 2" x 10" lumber joist.
- C. Ceiling system: 1 layer of 5/8" gypsum wallboard, per UL Design.

2. Metallic pipe:

- A. Steel pipe: 8" diameter (or smaller) schedule 40 (or heavier) steel pipe.
- B. Iron pipe: 8" diameter (or smaller) cast or ductile iron pipe. C. Conduit: 4" diameter (or smaller) electrical metallic tubing (EMT) or steel conduit.
- D. Copper tubing: 4" diameter (or smaller) Type L (or heavier) copper tubing. E. Copper pipe: 4" diameter (or smaller) regular (or heavier) copper pipe. Annular space from minimum 0" to maximum 7/8".

Additional sealant to be applied such that a minimum 1/2" crown is formed around the penetrating item.

- 3. Forming and fire stop materials: A. Forming material (optional): Foam backer rod packed into opening as a permanent form.
- B. Type IA: Minimum 1/2" thick sealant applied within the annulus, flush with the top of the floor and bottom of the ceiling assemblies.



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GENERAL INFORMATION

Option #1:

Continuous sheathed method (CS-G) R603.10.4:

24" wide braced wall panel 8' plate = 9' plate = 27" wide braced wall panel 30" wide braced wall panel 33" wide braced wall panel 10' plate = 36" wide braced wall panel

WALL CONSTRUCTION

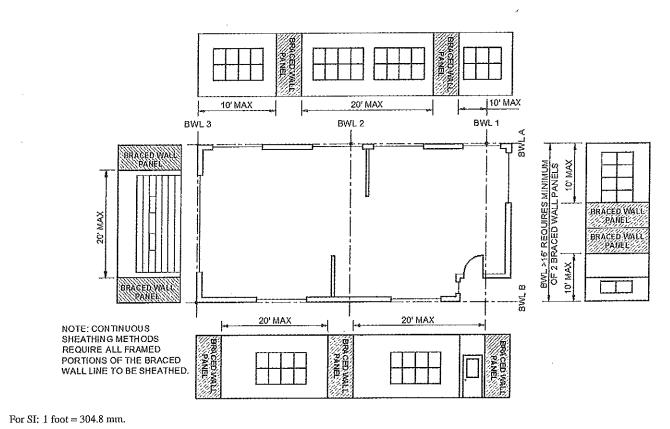


FIGURE R602.10.2.2

LOCATION OF BRACED WALL PANELS

Wall Bracing Simplified

<u> Option # 5</u>

Continuous Sheathed Portal Frame (CS-PF), R602.10.6.4

16" wide braced wall panel 9' plate = 18" wide braced wall panel • 10' plate = 20" wide braced wall panel

• 11' plate= 22" wide braced wall panel • 12' plate = 24" wide braced wall panel

*Special straps required per Figure R602.10.6.4

*Braced wall panels within 10' of corners and every 20' on wall length EXTENT OF HEADER WITH DOUBLE PORTAL FRAMES (TWO BRACED WALL PANELS)-EXTENT OF HEADER WITH SINGLE PORTAL FRAME
ONE BRACED WALL PANEL) 2'-18' FINISHED WIDTH OF OPENING FOR SINGLE OR DOUBLE PORTAL BRACED WALL LINE

CONTINUOUSLY SHEATHED,
WITH WOOD STRUCTURAL
PANELS MIN. 3"x111/1" NET HEADER STEEL HEADER PROHIBITED IF 1/2" SPACER IS USED, PLACE ON BACK-SIDE OF HEADER - MIN, LENGTH OF PANEL PER TABLE R602.10.5 OVER CONCRETE OR MASONRY BLOCK FOUNDATION WOOD STRUCTURAL PANEL SHEATHING OVER APPROVED BAND OR RIM JOIST-OVER RAISED WOOD FLOOR - FRAMING ANCHOR OPTION (WHERE PORTAL SHEATHING DOES NOT LAP OVER BAND OR RIM JOIST) WOOD STRUCTURAL PANEL SHEATHING OVER APPROVED BAND OR RIM JO

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

OVER RAISED WOOD FLOOR - OVERLAP OPTION

FRONT ELEVATION

FIGURE R602.10.6.4 METHOD CS-PF—CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION

SECTION

Wall Bracing Simplified

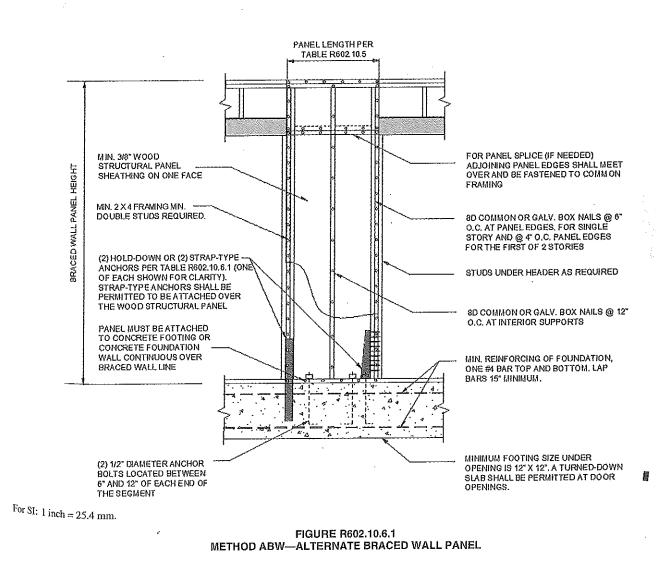
Option #2:

Alternate Braced Wall Panel (ABW) 602.10.6.1:

28" wide braced wall panel 8' plate = 32" wide braced wall panel

34" wide braced wall panel 10' plate = 12' plate = 42" wide braced wall panel

*Special straps required per Figure R602.10.6.1 *Braced wall panels within 10' of corners and every 20' on wall length



²⁰¹⁵ INTERNATIONAL RESIDENTIAL CODE®

Wall Bracing Simplified

Option #3:

Portal Frame with Hold-Downs (PFH), R602.10.6.2:

Supporting roof only:

•	8' plate =	16" wide braced wall panel
•	9' plate =	16" wide braced wall panel
•	10' plate =	16" wide braced wall panel
•	11' plate=	18" wide braced wall panel
•	12' plate =	20" wide braced wall panel

Two story:

0	8' plate =	24" wide braced wall panel
•	9' plate =	24" wide braced wall panel
	10' plate =	24" wide braced wall panel
6	11' plate=	27" wide braced wall panel
•	12' plate =	29" wide braced wall panel

*Special straps required per Figure R602.10.6.2 *Braced wall panels within 10' of corners and every 20' on wall length

WALL CONSTRUCTION

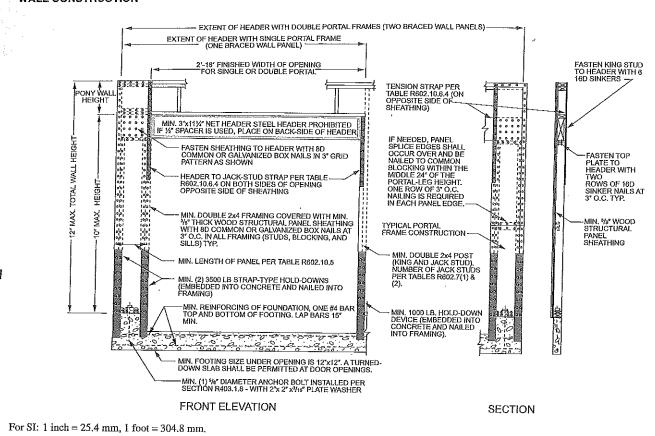


FIGURE R602.10.6.2 METHOD PFH---PORTAL FRAME WITH HOLD-DOWNS

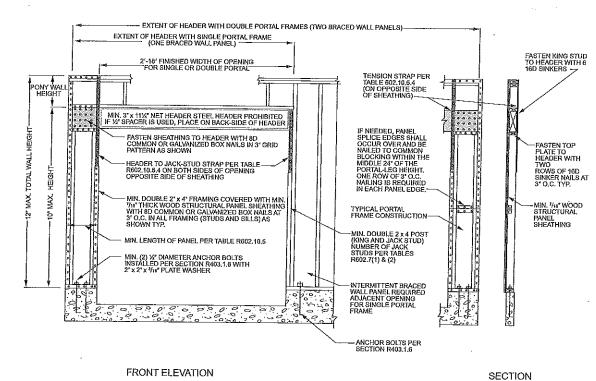
Wall Bracing Simplified

Option #4:

Portal Frame at Garage Opening (PFG), R602.10.6.3

8' plate = 24" wide braced wall panel • 9' plate = 27" wide braced wall panel 10' plate = 30" wide braced wall panel 33" wide braced wall panel 11' plate= • 12' plate = 36" wide braced wall panel

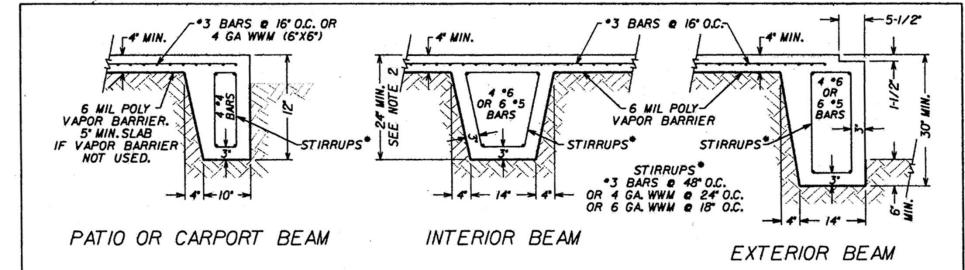
*Special straps required per Figure R602.10.6.3 *Braced wall panels within 10' of corners and every 20' on wall length



For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

FIGURE R602.10.6.3 METHOD PFG-PORTAL FRAME AT GARAGE DOOR OPENINGS IN SEISMIC DESIGN CATEGORIES A, B AND C

2015 INTERNATIONAL RESIDENTIAL COD



GENERAL NOTES:

I. Exterior beam shall extend a minimum of 6 inches into undisturbed soil or fill which is compacted to 95% Standard Proctor (ASTM D 698) within (±) 2% of optimum moisture content. All fill material shall have a

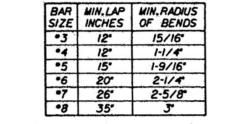
Plasticity Index (P.IJ between 5 and 18. 2. Interior beams that exceed 60 ft.in length must be a minimum of 30 inches deep. 3. Maximum beam spacing shall be 15 feet and shall be confinuous over the length or width of the foundation. 4. Steel to be set to clear bare earth minimum 3 Inches, wood or steel forms by I-I/2 Inches.

5. Minimum concrete specified compression strength shall be 3000 psi e 28 days. 6. Masonry fireplace footings shall be a minimum of 30 Inches deep with 2 mats of *5's @ 12 Inches on center both ways.

7. These minimum standards shall apply to all foundations. Exceptions: A. Foundations for temporary buildings and permanent buildings not exceeding one story in height and 400

square feet in area. B. Foundations designed by an Architect registered in the State of Texas or a civil/structural Engineer registered in the State of Texas and approved for use by the Building Official.

8. All foundations designed by an Architect or Engineer shall be installed as designed. Revisions and exceptions must be submitted in writing by the Architect or Engineer and approved by the Building Official. 9. Reinforcing steel shall be grade 60 (grade 40 allowed for stirrups only). All deformations shall meet ASTM A615.



INTERIOR SLAB DROP

MINIMUM FOUNDATION STANDARDS

REV. C ~ OCTOBER 31, 2001 ~ SHEET 1 OF 1

BUILDING SERVICES DIVISION

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SHADED WALLS INDICATE FIRE RATED WALL CONSTRUCTION TO SEPARATE UNITS. SEE WALL TAG ON FLOOR PLAN FOR NUMBER OF HOURS WALL IS REQUIRED TO BE RATED FOR. SEE SHEET A0 FOR



SHADED FLOOR AREA INDICATES 2 HOUR FIRE RATED FLOOR CONSTRUCTION TO SEPARATE UNITS. SEE SHEET A0 FOR DETAILS ON RATED ASSEMBLY.



SHADED FLOOR AREA INDICATES AREAS WITH EITHER A DROPPED CEILING OR A SOFFIT FRAMED AT 7'-6" ABOVE FINISH FLOOR TO ACCOMMODATE AN ABOVE CEILING H.V.A.C. UNIT & DUCTWORK TO

GENERAL NOTES

LOCATE AND MARK ALL UTLITY, SERVICE AND SYSTEMS LOCATIONS PRIOR TO COMMENCEMENT OF WORK. FIELD VERIFY LOCATIONS OF ALL EXISTING UTILITY

- COORDINATE EQUIPMENT ROUGH OPENING
- INSTALL INTERIOR DOORS SUCH THAT THERE IS A 4" CLEAR ON THE HINGE SIDE OF THE DOOR TO ADJACENT FINISHED WALL SURFACE (UNLESS NOTED OTHERWISE).
- NOTE: BUILDINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TEXAS ACCESSIBILITY STANDARDS AND ICC/ANSI A 117.1. GROUND FLOOR DWELLING UNITS TO COMPLY WITH FAIR HOUSING (FH) REQUIREMENTS, NOTE THAT FH REQUIREMENTS VARY DEPENDING ON THE NUMBERS OF UNITS PER SITE WITH MULTIPLE

FLOOR PLAN LEGEND

DETAILS ON RATED ASSEMBLY.



SERVE ADJACENT ROOMS.

- COMPONENTS.
- DIMENSIONS ARE SHOWN TO BE FACE OF NOMINAL STUDS, MASONRY VENEER AND TO THE CENTERLINES OF DOORS, WINDOWS AND COLUMNS. (UNLESS NOTED OTHERWISE)
- PROVIDE WOOD BLOCKING IN WALLS AS REQUIRED TO INSTALL CABINETS, HANDRAILS, TOILET ACCESSORIES, ADA ACCESSIBLE ACCESSORIES PER FAIR HOUSING REQUIREMENTS, ETC.
- FINISH MATERIALS ARE TO BE INSTALLED BEHIND AND BENEATH APPLIANCES, KNEE SPACES, MOVE-ABLE EQUIPMENT, ETC...
- SIZES AND LOCATIONS WITH THE RESPECTIVE EQUIPMENT.
- BUILDINGS
- FOUNDATION PLAN AND DETAILS (PLANS TO SHOW COMPLIANCE WITH CITY OF BRYAN MINIMUM FOUNDATION STANDARDS OR AN APPROVED ENGINEERED DESIGN PRIOR TO CONSTRUCTION) SEE SHEET A0.1
- EXTERNAL HVAC UNITS WILL BE INSTALLED ON THE REAR OR SIDES OF RESIDENCE ONLY. UNITS ARE TO BE PLACED OUT OF CRITICAL
- 10 EXTERNAL ELECTRICAL PANEL LOCATIONS SHALL BE LOCATED ON THE REAR OR SIDES OF RESIDENCE ONLY.
- 1 SEE THE "CITY OF BRYAN RESIDENTIAL BUILDING PERMIT APPLICATION REQUIREMENTS" FOR LIST OF DETAILS REQUIRED TO FINISH THIS SET OF DRAWINGS.

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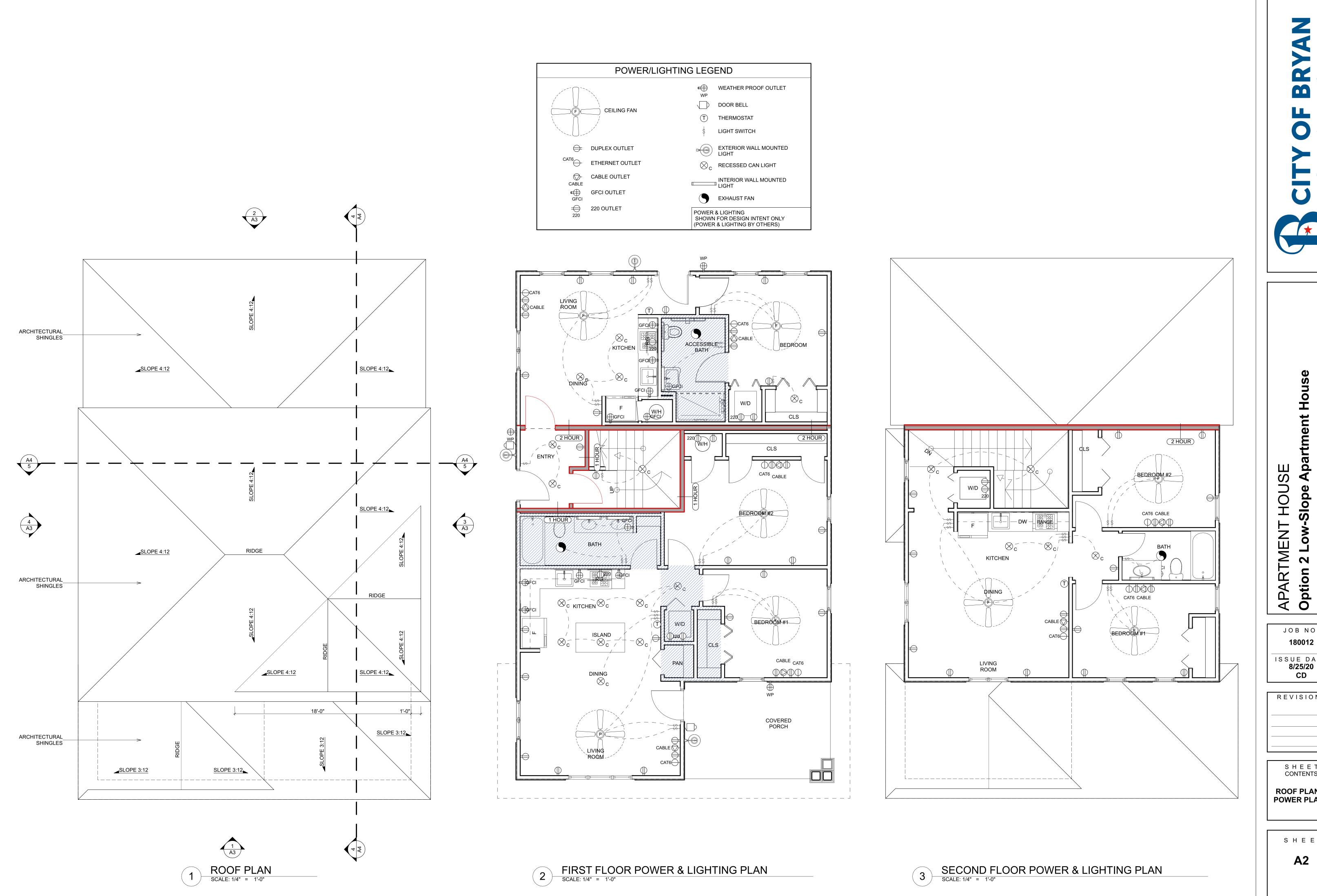
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A1



APARTMENT HOUSE Low-Slope Option

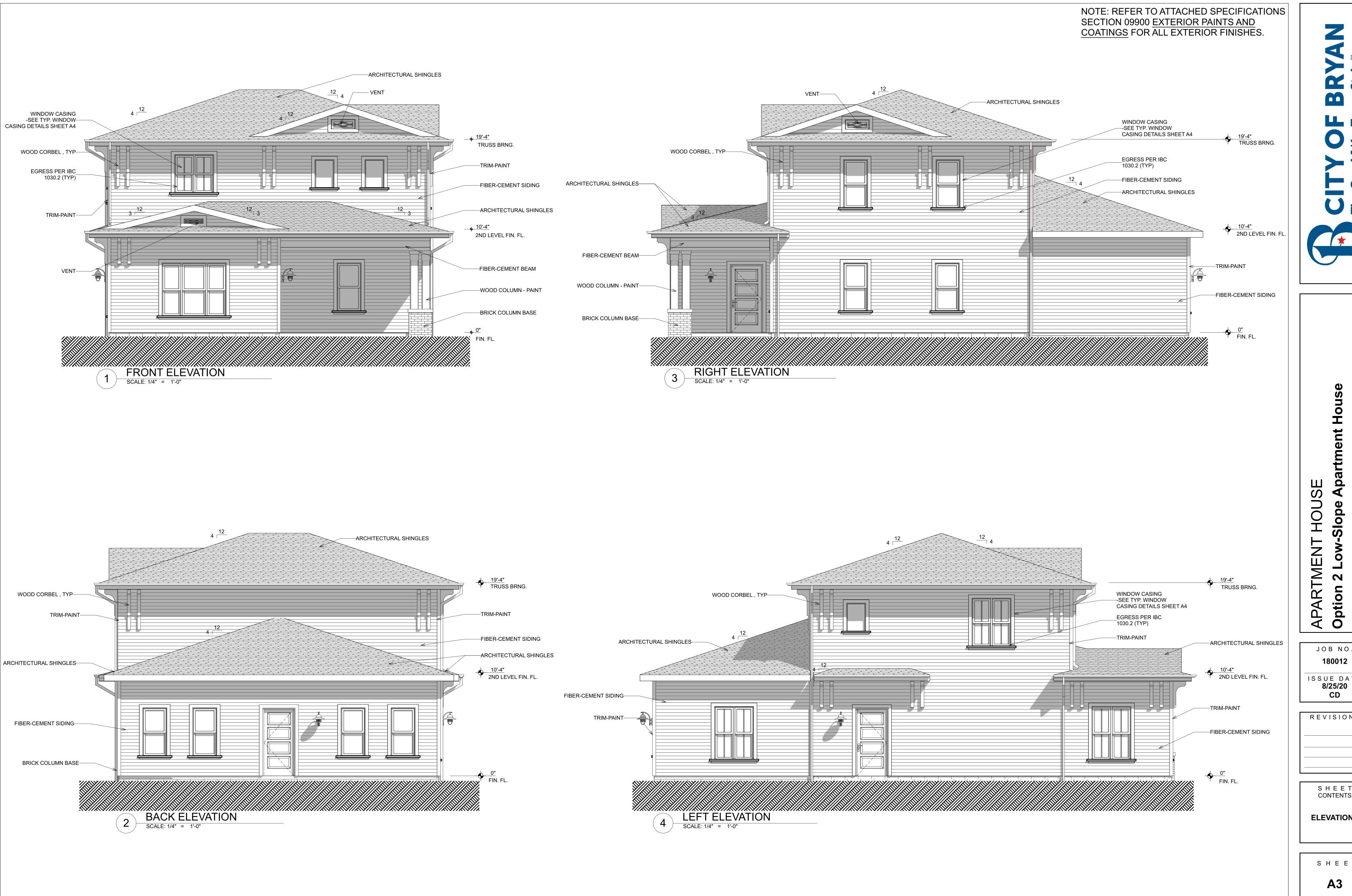
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